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Docket Number INFORMATION DISCLOSURE CITATION Not Yet Assigned M4065.0295/P295-C IN AN APPLICATION Applicant(s) Howard E. RHODES Group Art Unit Filing Date February 27, 2004 z8 U.S. PATENT DOCUMENTS FILING DATE *EXAMINER DOCUMENT NO. DATE CLASS SUBCLASS IF APPROPRIATE INITIAL 02/1983 SCOTT et al.** 4,374,700 5,055,900 10/1991 FOSSUM et al.** 5,151,385 09/1992 YAMAMOTO et al.** 12/1992 WONG et al.** 5,173,756 5,319,604 06/1994 IMONDI et al.** 10/1995 FOWLER et al.** 5,461,425 11/1995 FOSSUM et al.** 5,471,515 ACKLAND et al.** 5,541,402 07/1996 ACKLAND et al.** 5,576,763 11/1996 CHI et al.** 5,608,243 03/1997 03/1997 MERRILL** 5,614,744 LEE et al. ** 04/1997 5,625,210 5,705,846 01/1998 MERRILL** 01/1998 WONG** 5,708,263 5,721,425 02/1998 MERRILL** 03/1998 SUGIYAMA et al. ** 5,731,622 5,747,840 05/1998 MERRILL** 05/1998 TSAI et al. ** 5,757,045 5,770,878 06/1998 BEASOM** 11/1999 LIU et al.** 5,990,515 12/1999 SHEN** 6,001,684 12/1999 **HOEPFNER**** 6,008,103 FOREIGN PATENT DOCUMENTS TRANSLATION CLASS SUBCLASS REF DOCUMENT DATE COUNTRY YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Dickinson, A., et al., A 256x256 CMOS Active Pixel Image Sensor with Motion Detection, 1995 IEEE International Solid-State Circuits Conference, pps. 226-227.** Dickinson, A., et al., Standard CMOS Active Pixel Image Sensors for Multimedia Applications, Proceedings of Sixteenth Conference on Advanced Research in VLSI, March 27-29, 1995, pps. 214-224.** Eid, E-S., et al., A 256 x 256 CMOS Active Pixel Image Sensor, Proc. SPIE Vol. 2415, April 1995, pps. 265-275.** Fossum, E., CMOS Image Sensors: Electronic Camera On A Chip, 1995 IEEE, pps. 17-25.**

2/21/4 0/787.155

Docket Number INFORMATION DISCLOSURE CITATION M4065.0295/P295-C IN AN APPLICATION Applicant(s) Howard E. RHODES Filing Date Group Art Unit 281 February 27, 2004 U.S. PATENT DOCUMENTS FILING DATE *EXAMINER REF DOCUMENT NO. DATE NAME CLASS SUBCLASS IF APPROPRIATE INITIAL FOREIGN PATENT DOCUMENTS TRANSLATION DATE COUNTRY CLASS SUBCLASS DOCUMENT OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Fossum, E., Low Power Camera-on-a-Chip Using CMOS Active Pixel Sensor Technology, 1995 IEEE, pps. 74-77.** Fossum, E., Architectures for focal plane image processing, Optical Engineering, Vol. 28, No 8, August 1989, pps. 865-871.** Janesick, J., et al., New advancements in charge-coupled device technology - sub-electron noise and 4096x4096 pixel CCDs, Proc. SPIE Vol. 1242, 1990, pps. 223-237.** Kemeny, S.E., et al., Update on focal-plane image processing research, Proc. SPIE Vol. 1447, 1991, pps. 243-250.** Mendis, S., et al., CMOS Active Pixel Image Sensor, IEEE Transactions on Electron Devices, Vol. 41, No. 3, March 1994, pps. 452-453.** Mendis, S.K., et al., A 128 x 128 CMOS Active Pixel Image Sensor for Highly Integrated <u>Imaging Systems</u>, 1993 IEEE, pps. 583-586.** Mendis, S.K., et al., CMOS Active Pixel Image Sensors for Highly Integrated Imaging Systems, IEEE Journal of Solid-State Circuits, Vol. 32, No. 2, February 1997, pps. 187-197.** Mendis, S.K., et al., Design of a Low-Light-Level Image Sensor with On-Chip Sigma-Delta Analog-to-Digital Conversion, Proc. SPIE Vol. 1900, July 1993, pps. 31-39.** Mendis, S.K., et al., Low-Light-Level Image Sensor with On-Chip Signal Processing, Proc. SPIE Vol. 1952, November 1993, pps. 23-33.** Mendis, S.K., et al., Progress In CMOS Active Pixel Image Sensors, Proc. SPIE Vol. 2172, May 1994, pps. 19-29.** Nakamura, J., et al., CMOS Active Pixel Image Sensor with Simple Floating Gate Pixels, IEEE Transactions on Electron Devices, Vol. 42, No. 9, September 1995, pps. 1693luv 1694.**

Form PTO-1449/PTO-A820 COMMERCE Page 2 of 3

Patent and Trademark Office * U.S. DEPARTMENT OF

2/27/4 10/787.155

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				Docket Number	Application Nu	Application Number		
INFORM	ATIO	N DISCLOSUR	E CITATION	M4065.0295/P295-C	Not Yet Assigned.			
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U.S. PATENT DOCUMENTS								
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FOREIGN PATENT DOCUMENTS								
í	REF	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	
							YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
Nixon, R.H., et al., 256 x 256 CMOS Active Pixel Sensor Camera-on-a-Chip, IEEE								
(1) U/		Journal of Solid-State Circuits, Vol. 31, No. 12, December 1996, pps. 2046-2050.**						
		Nixon, R.H., et al., 256x256 CMOS Active Pixel Sensor Camera-on-a-Chip, 1996 IEEE						
		International Solid-State Circuits Conference, pps. 178-179.**						
		Panicacci, R., et al., <u>Programmable multiresolution CMOS active pixel sensor</u> , Proc. SPIE Vol. 2654, March 1996, pps. 72-79.**						
		Panicacci, R.A., et al., 128Mb/s Multiport CMOS Binary Active-Pixel Image Sensor,						
		1996 IEEE International Solid-State Circuit Conference, pps. 100-101.**						
		Yadid-Pecht, O., et al., CMOS Active Pixel Sensor Star Tracker with Regional Electronic						
		Shutter, IEEE Journal of Solid-State Circuits, Vol. 32, No. 2, February 1997, pps. 285-288.**						
		Yadid-Pecht, O., et al., Wide dynamic range APS star tracker, Proc. SPIE Vol. 2654,						
		March 1996, pps. 82-92.**						
		Zarnowski, J., et al., <u>Imaging options expand with CMOS technology</u> , Laser Focus World, June 1997, pps. 125-130.**						
		Zhou, Z., et al., A Cmos Imager with On-Chip Variable Resolution for Light-Adaptive						
		Imaging, 1998 IEEE International Solid-State Circuits Conference, pps. 174-175.**						
		Zhou, Z., et al., A Digital CMOS Active Pixel Image Sensor For Multimedia Applications,						
l l		Proc. SPIE Vo	ol. 2894, Sep	tember 1996, pps. 282-288.**				
	,	Fossum, E., et al., IEDM A 37x28mm ² 600k-Pixel CMOS APS Dental X-Ray Camera-on-						
OHOX		a-Chip with Self-Triggered Readout, 1998 IEEE International Solid-State Circuits						
ew		Conference, pps. 172-173.**						
								
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